

## SUBJECT INDEX

- Actinidia*, growth from callus cultures, 107  
*Aeschynanthus*, light, flowering, 71  
*Antirrhinum*, paclobutrazol, pinching, 401  
 Apple, bitter pit, calcium, 303  
   carbaryl, fruitlet thinner, 11  
   chemical thinning, 135  
   cider, cultivars  
     Michelin, 287  
     Sweet Coppin, 287  
   cold storage, scald control, 141  
   collar rot control, 441  
   cultivars, Bramley, 11  
     Cox's Orange Pippin, 11, 17, 291, 427  
     Discovery, 11  
     Golden Delicious, 5  
     Spartan, 11, 135  
     Starking, 141  
   fruit ripening, paclobutrazol, 295  
     set, 135  
   fruitlet thinner, carbaryl, timing, 11  
   growth, flower-buds, 433  
     fruit quality, water deficit, 427  
   leaf area measurement, 5  
   rootstocks, M.9, 5, 135  
     M.27, 5  
     MM.106, 135  
   scald, diphenylamine, 141  
   shoots, cold resistance, 281  
   storage quality, nutrition, development, 17  
   water use, paclobutrazol, 421  
   yield suppression, fungicide, 291  
 Ascorbic acid, rind spot, citrus, 263  
 Biochemistry, papaya ripening, 117  
 Blackberry, rust fungus, 475  
 Blackcurrant, control of mite, pesticides, 27  
   cultivars, Baldwin, 27  
     Green's Black 27  
     Wellington XXX, 27  
 Blueberry, chilling, flowering, 481  
 Breeding, low-oxalate rhubarb, 523  
 Bulb development, onion, 371, 379  
 Cadmium, growth, tomato, sweet corn, 227  
 Calcareous soil, Cd, tomato, sweet corn, 227  
 Calcium, nutrition, apple fruit, 303  
 Canopy, light interception, raspberry, 493  
   temperature, radish, irrigation, 507  
 Carbaryl, fruitlet thinner, apple, 11  
 Carbohydrate, carrot storage, 191  
   changes, ripening papaya, 117  
 Carrot, cultivars, Nantes, 191  
   OE 20, 191  
   dry matter partitioning, 335  
   growth, mechanical stress, 359  
   leaf, storage root initiation, 343  
   storage, harvesting date, 191  
   storage root, cell number, 351  
   xylem and phloem development, 351  
*Cecidophyopsis ribis*, control, pesticides, 27  
 Celery, blackheart disorder, 205  
   cultivars, Florida, 205  
 Chilling, dormancy, peach, 457  
   flowering, blueberry, 481  
 Chlorosis, sequestrene, sulphuric acid, 391  
*Chondrostereum purpureum* on apple, 287  
 Citrus, flavedo, rind spot, ascorbic acid, 263  
   scab disease, Nigeria, 111

- Citrus medica* isoenzymes, 413
  - variety identification, 413
- Clementine, sugar changes during ripening, 531
- Cold hardiness, *Opuntia*, 545
- Cold resistance in apple, specific proteins, 281
- Collar rot, apple, 441
- Colocasia esculenta*, morphology, 395
- Compost, treatment for vine weevil control, 67
- Corm, taro, morphology, 395
- Cranberry, Ca, B, Mn, Zn nutrition, 163
  - cultivars, Early Black, 163
    - Howes, 163
  - nutrition, fruit set, 163
- Cucumber, humidity, yield, 363
- Cuttings, rooting, *Prosopis*, 97
  - storage, *Pelargonium*, 79
- Daminozide, apple growth, flowering, 433
- Disease, scab, citrus, 111
- Disorders, celery, GA, salinity, 205
  - citrus, rind spot, 263
- Dormancy, chemical treatment, peach, 457
  - peach, chilling, 457
- Douglas fir, paclobutrazol, growth, 101
- Dry matter partitioning, carrot cultivars, 335
- Enzyme, changes, ripening papaya, 117
- Ethephon, effect on macadamia racemes, 539
- Flower buds, paclobutrazol, daminozide, 433
  - opening, orchid, chemicals, 75
- Flowering, *Aeschynanthus*, effect of light, 71
  - antirrhinum, 401
  - blueberry, chilling, 481
  - ethephon on macadamia, 539
- Fluid drilling, lettuce, herbicide protection, 31
  - onion, pre-germinated, 39
- Fruit quality, water deficit, apple, 427
  - ripening, papaya, 117
  - tomato, 243
  - set, nutrition, cranberry, 163
    - pollination, peach, 469
  - apple, thinning, 135
  - size, girdling, earliness 463
  - thinning, paclobutrazol, peach, 147
- Fumigation, soil, weed control, 233
- Fungicide, raspberry, midge blight, 171
  - rooting of *Prosopis*, 97
  - strawberry storage, 117
  - triadimefon, apple yield, 291
- Gall mite, blackcurrant, control, 27
- Garlic, virus-free, meristem-tip culture, 211
- Germination, olive seeds, 405
  - snap bean, seed coat permeability, 183
  - tomato, water stress, 221
- Gibberellins, apple growth, flowering, 433
- Ginger, tissue culture, nematodes, 249
- Girdling, fruit size, earliness, peach, nectarine, 463
- Growth, apple, water deficit, 427
  - compounds, auxins, 97
    - GA, 205, 433
    - IBA, 97
    - NAA, 97
    - paclobutrazol, 101, 147, 287, 295, 313, 421
    - thiamine, 97
  - crops, affected by humidity, 125
  - Douglas fir, affected by paclobutrazol, 101
  - loblolly pine, affected by paclobutrazol, 101
  - ornamentals, chlorpyrifos, 67

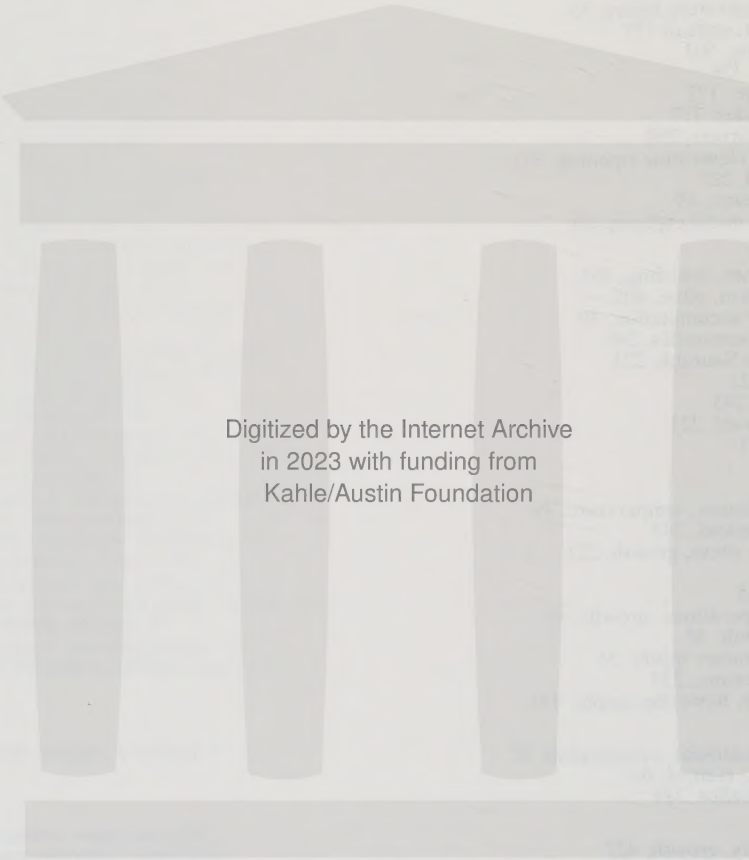


- paclobutrazol, daminozide, apple, 433
- papaya *in vitro*, 551
- peach shoots, paclobutrazol, 147
- regulators, celery, GA, 205
- roots, tomato seedlings, 49
- seedlings, tomato, water stress, 221
- spur in peach, 449
- substances on pea chlorosis, 391
- tomato, sweet corn, Cd, 227
  
- Hardy nursery stock, vine weevil control, 63
- Harvesting date, carrot storage, carbohydrates, 191
- Herbicides, fluid drilling, lettuce, 31
- Humidity, crop growth, 125
  - cucumber yield, 363
  
- Insect trapping, fruit fly, orange, 269
- Insecticides, aldrin, vine weevil, 67
  - chlorpyrifos, vine weevil, 67
  - fruit fly, orange, 269
  - raspberry, cane midge, 171
  - vine weevil, hardy nursery stock, 63
- In vitro* culture, kiwi fruit, 107
  - propagation, *Syringa*, 89
- Irrigation, methods, nitrogen, yield, 507
- Isoenzymes of citrus, 413
  
- Kiwi fruit, regeneration from callus, 107
  
- Leaf, area measurement in apple, 5
  - initiation, carrot, 343
- Lettuce, cultivar, Montello, 31
  - fluid-drilled, herbicide protection, 31
- Light, cyclic, onion, 379
  - flowering in *Aeschynanthus*, 71
  - interception, raspberry, 493
  - measurement in orchards, 1
- Litchi, leaf age, nutrition, 273
  - nutrition, leaf analysis, 273
- Loblolly pine, paclobutrazol, growth, 101
- Low-temperature injury, snap bean, 183
  - tomato, storage, 55
- Lycopersicon*, germination, water stress, growth, 221
  
- Macadamia, ethephon effects, flowering, 539
- Malate, content in rhubarb, 513
- Mediterranean fruit fly, orange, control, trapping, 269
- Meristem-tip culture, garlic, shallot, 211
- Micropropagation, medium, culture of papaya, 551
  - nodal explants, 89
  - shoot, root regeneration, 305
- Mildew, resistance, strawberry, 329
- Mineral composition, apple fruit, quality, 17
  
- Nectarine, girdling, fruit size, earliness, 463
- Nematodes, elimination, ginger, tissue culture, 249
- Nitrogen, radish yield, 507
- Nucleic acids, changes, ripening papaya, 117
- Nutrition, black-end disorder, pear, 157
  - fruit set, cranberry, 163
  - macro, micro, litchi, 273
  
- Olive, germination, temperature, 405
- Oncidium*, chemical bud opening, 75
- Onion, bulb development, 371, 379
  - cultivar, Hyper, 39
  - physiological disorder, 371
  - seedling emergence, fluid-drilled, 39

- Opuntia*, cold hardiness, 545
- Orange, fruit fly, control, 269
  - growth yield, rootstocks, 253
  - rootstock comparison, Australia, 253
  - sugar changes during ripening, 531
- Orchard, light measurement, 1
- Orchid, *Oncidium*, bud opening, 75
- Oxalate, breeding rhubarb, 523
  - content in rhubarb, 513
- Paclobutrazol, antirrhinum flowering, 401
  - apple growth, flowering, 433
  - apple ripening, 295
  - effect on silverleaf, apple, 287
  - peach, fruit thinning, 147
  - pear, fruit set, 313
  - water use, fruit plants, 421
- Papaya, fruit ripening changes, 117
  - micropropagation, 551
- Pea, iron chlorosis, 391
- Peach, chilling, rest breaking, 457
  - cultivars, Redhaven, 147
    - Sudanell-1, 147
  - fruit thinning, paclobutrazol, 147
  - girdling, fruit size, earliness, 463
  - pollination, fruit set, 469
  - shoot growth, paclobutrazol, 147
  - spur growth, 449
- Pear, black-end disorder, Australia, 157
  - cultivar, Doyen du Comice, 313
  - fruiting, paclobutrazol, 313
  - micropropagation, 305
  - water use, paclobutrazol, 421
- Pelargonium*, cultivar, Cramden Red, 79
  - storage of cuttings, 79
- Pesticide, control, blackcurrant gall mite, 27
- Photoperiod, onion bulbing, 379
- Phragmidium violaceum*, blackberry, 475
- Pollination, fruit set, peach, 469
- Post-harvest physiology, apples, 295
- Propagation, red raspberry, leafy cuttings, 485
- Prosopis*, rooting cuttings, 97
- Protein, changes, ripening papaya, 117
  - specific for cold resistance, apple, 281
- Quality, apple storage, nutrition, 17
- Radish, irrigation, water use, 507
  - soil water potential, yield, 507
- Raspberry, cane blight, 171
  - cane midge control, 171
  - cultivars, Glen Clova, 171
    - Malling Jewel, 171
  - light interception, canopies, 493
  - midge blight control, 171
  - propagation, leafy summer cuttings, 485
- Review article, humidity and crop growth, 125
- Rhubarb, breeding low oxalate content, 523
  - organic acid variation, 513
  - oxalate and malate content, 513
- Ripening, papaya fruit, biochemistry, 117
  - sugar content, clementine, orange, 531
- Root growth, tomato seedlings, 49
  - initiation, *in vitro*, papaya, 551
- Rooting, *Prosopis* cuttings, 97
- Rootstocks, orange, comparison, 253

- Salinity, celery blackheart, 205
- Seedling emergence, onion, fluid-drilled, 39
  - growth, onion, fluid-drilled, 39
- Shallot, virus-free, meristem-tip culture, 211
- Silverleaf symptoms, apple, 287
- Snap bean, germination, seed coat permeability, 183
  - hard seededness, chilling injury, 183
- Storage, apple, nutrition, development, 17
  - apple scald control, 141
  - carrot, carbohydrates, 191
  - Pelargonium*, cuttings, 79
  - root initiation, carrot, 343
  - strawberries, freezing, 501
  - strawberries, wraps, 177
  - tomatoes, low-temperature injury, 55
- Strawberry, *Botrytis* rot, control 177
  - cultivars for freezing, 501
  - mildew resistance, 329
  - post-harvest storage, 177
  - pre-harvest fungicides, 177
- Stress, mechanical on carrots, 359
- Sugar content, orange, clementine ripening, 531
- Sweet corn, growth, Cd, 227
- Syringa*, cultivar, *Saugeana*, 89
  - micropropagation, nodal explants, 89
- Taro, corm polymorphism, breeding, 395
- Temperature, germination, olive, 405
  - tomato, dry matter accumulation, 49
- Tissue culture, ginger, nematodes, 249
- Tomato, cultivars, Akra Saurabh, 221
  - Arka Vikas, 221
  - Moneymaker, 243
  - Pusa Early Dwarf, 221
  - Pusa Ruby, 221
  - Sonatine, 55
  - Vendor, 49
- dry matter accumulation, temperature, 49
- fruit ripening, tetraploid, 243
- germination, water stress, growth, 221
- growth, Cd, 227
- ripening, storage, 55
- root and shoot temperatures, growth, 49
- seedlings, root growth, 49
- storage, low-temperature injury, 55
- weed control, processing, 233
- Tree orientation, growth, flowering, apple, 433
- Vine weevil, compost treatment, ornamentals, 67
  - hardy nursery stock, control, 63
- Virus-freedom, garlic, shallot, 211
- Water deficit, fruit quality, growth, 427
  - use, apple, pear, paclobutrazol, 421
  - temperature, paclobutrazol, 421
- Water stress, germination, growth, tomato, 221
- Weed control, processing tomatoes, 233
- Yield, cucumber, 363
  - water use, radish, 507





Digitized by the Internet Archive  
in 2023 with funding from  
Kahle/Austin Foundation

## AUTHOR INDEX

- Agunloye, O. J., 269  
 Aharoni, Y., 177  
 Aloni, B., 205  
 Atkinson, D., 421  
 Austin, M. E., 481  
  
 Bakker, J. C., 363  
 Barbieri, C., 107  
 Barkai-Golan, R., 177  
 Bassiri, A., 227  
 Bhatt, R. M., 221  
 Biddington, N. L., 359  
 Birkenhead, W. E., 233  
 Blackshaw, R. P., 63, 67  
 Blanco, A., 147  
 Bolland, C. J., 211  
 Bondari, K., 481  
 Brewster, J. L., 371  
 Browning, G., 305, 313  
 Bruzzese, E., 475  
  
 Calitz, F. J., 141  
 Carseldine, M. L., 273  
 Chauhan, J. S., 421  
 Child, D. Victoria, 291  
 Combrink, J. C., 141  
 Copas, Liz, 287, 291  
 Cowper, Anneli S., 335, 343, 351  
  
 Dearman, A. S., 359  
 Dede, Alice P. O., 111  
 De Lange, J. H., 249  
 Demoranville, C. J., 163  
 Deubert, K. H., 163  
 Dheim, M. A., 313  
 Dickson, M. H., 183  
 Dimsey, R. T., 253  
 Drew, R. A., 551  
 Drost, J. H., 427  
  
 El-Agamy, S. Z., 469  
 Estelles, A., 531  
  
 Felker, P., 97, 545  
 Fernandez-Escobar, R., 457, 463  
 Ferree, D. C., 493  
 Finch-Savage, W. E., 39  
  
 Gallagher, E. C., 539  
 Gertsson, Ulla E., 71  
 Grange, R. I., 125  
  
 Hand, D. W., 125  
 Harris, D. C., 441  
 Hasan, S., 475  
  
 Hegde, D. M., 507  
 Hew, C. S., 75  
 Hobson, G. E., 55  
 Hole, C. C., 335, 343, 351  
 Holgate, Margaret E., 291  
 Howard, B. H., 485  
  
 Irving, D. E., 427  
 Irwin, H. L., 401  
  
 Jackson, J. E., 493  
 Jain, G. L., 391  
 James, D. J., 305  
 Janes, H. W., 49  
 Jerie, P. H., 157  
 Johnson, D. S., 17  
  
 Kagan-Zur, V., 243  
 Kang, Seong-Mo, 281  
 Klass, Sharon, 97  
 Knight, J. N., 11, 135  
 Kuriyama, T., 263  
 Kusunose, H., 263  
  
 Lawes, W., 371  
 Libert, Bo, 513, 523  
 Looney, N. E., 135  
 Lopez-Rivares, P., 463  
 Lovell, J. D., 135  
 Luo, Y., 295  
  
 Maftoun, M., 227  
 Maletta, Martha, 49  
 Manabe, T., 263  
 Marks, M. J., 17  
 Martin, R., 457, 463  
 Menzel, C. M., 273  
 Miller, A., 211  
 Mitra, S. K., 485  
 Mizrahi, Y., 243  
 Moore, K. G., 295  
 Morgan, Wendy C., 233  
 Morgans, A. S., 233  
 Morini, S., 107  
 Morris, G. E. L., 335, 343, 351  
  
 Nel, Magda, 249  
 Nielsen, S. L., 27  
 Nilsson, T., 191  
  
 Ognjanov, V., 305  
 Okonkwo, C. A. C., 395  
 O'Neill, Susan, 67  
 Ortiz, J. M., 531  
  
 Pal, D. K., 117  
 Palmer, J. W., 1, 5, 493  
 Passey, A. J., 305  
 Paton, Fiona, 79  
 Paz Suarez, M., 463  
 Pearson, K., 17, 303  
 Perring, M. A., 303  
 Porlingis, I. C., 405  
 Pressman, E., 205  
 Protopapadakis, E. E., 413  
  
 Russell, C., 545  
  
 Sahu, M. P., 391  
 Sameni, A. M., 227  
 Sawamura, M., 263  
 Schwabe, W. W., 79  
 Scorza, R., 449  
 Selvaraj, Y., 117  
 Sharma, D. D., 391  
 Sherman, W. B., 469  
 Simpson, D. R., 273  
 Simpson, D. W., 329  
 Singh, H. G., 391  
 Sobeih, W. Y., 379  
 Spencer, Jane E., 11, 135  
 Srinivasa Rao, N. K., 221  
 Stanley, R., 501  
 Steenkamp, J., 141  
 Stephenson, R. A., 539  
 Stevenson, B., 233  
  
 Tadeo, J. L., 531  
 Tal, E., 485  
 Taylor, A. G., 31, 183  
 Taylor, B. K., 157  
 Thornton, I. R., 253  
 Titus, J. S., 281  
 Tromp, J., 433  
  
 Van Den Ende, B., 157  
 Van Uffelen, J. A. M., 363  
 Varma, A., 111  
 Voyiatzis, D. G., 405  
  
 Wainwright, H., 295, 401  
 Walkey, D. G. A., 211  
 Warholick, D. T., 31  
 Webb, M. J. W., 211  
 Welander, N. T., 89  
 Welles, G. W. H., 363  
 Wheeler, N. C., 101  
 Whitlock, A. J., 371  
 Willers, P., 249  
 Williams, R. R., 287, 291  
 Williamson, B., 171  
 Wright, C. J., 379  
 Wright, J., 97

